

Amendments to the Specification:

Please replace the paragraph beginning at page 4, line 36, with the following rewritten paragraph:

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In the solution of Figure 3, a mechanism 15a, 15b, 15c is connected to a separate controller 9, the mechanism changing at suitable intervals sample gas collected by a gas monitor 7 by alternating between the actual gas to be measured, i.e. a breathing gas sample 8, and reference gas, e.g. a fresh gas sample 16. A controller 9 can be a separate controller as in the example of the figure, but it can also be integrated to the monitor or the controllable device. A reference signal is thus given periodically to the gas monitor, the reference signal comprising a fresh gas sample in the example of the figure. Regardless of the gas monitor, the gas dispenser 10 is perfectly aware of the real anaesthetic concentration of the reference gas. The real concentration value 17 of the reference gas given by the gas dispenser and the measuring value 18 of the monitor obtained from the reference gas sample, or reference signal, that is fed to it, are fed by means of e.g. a serial port to a CPU 20 in the controller that compares these two values with each other. If the accuracy of the values is not approximately the same, the controller detects the fault situation of the measuring device 7 and takes a suitable safety measure, e.g. stops setting the gas dispenser 10 concentration 19 and disconnects the control of the controllable device. Opening a safety valve or giving a suitable alarm signal, for example, can also be regarded as safety measures. An alarm signal may be based on e.g. sound or light effect, or both.